Department of the Interior U.S. Geological Survey

Bulletin 766

Spirit Leveling in California 1896-1923

> C.H. Birdseye Chief Topographic Engineer

> > - Washinghton -Government Printing Office 1925

William Control of the control of th	Feet	
Studier's ranch house, 0.5 mile north of, 100 feet southwest of		
southwest bank of river, 50 feet west of levee 6 feet high, at end		
of temporary road from ranch house to river, 50 feet south of		
group of 3-foot oak trees, 1 mile north of Minges's Landing, about		
900 feet up second ranch above mouth of Stanislaus River; iron	90.00	
post set in concrete (U. S. C. E. b. m. 434)	32, 29	
At lower end of first ranch below Stanislaus River, 60 feet east		
of 2.5-foot leaning oak, at top break of east (right) bank of San		
Joaquin River, 0.5 mile below mouth of Stanislaus River, 150 feet		
below inlet of nearest of two sloughs which bear northerly; iron	DO 571	
post set in concrete (U. S. C. E. b. m. 435)	30. 71	
John Ohm Place, San Joaquin City, at fence line of yard, 50 feet		
southwest of John Ohm residence, about 100 feet northeast of		
northeast fence line of main road; iron post set in concrete (U. S.	40 84	
(1 B. b. m. 436)	43. 54	
Gerisch ranch house, 500 feet southwest of southwest bank of		
river, at fence intersection, 320 feet east of barn, 380 feet south-		
east of house, 0.75 mile north of junction of Ripon and San Joa-		
quin City, and Banda roads, at abandoned hotel; iron post set	31.44	
In concrete (U. S. C. E. b. m. 437)	91' 44	
Geriach place, 4,800 feet north of, 250 feet south of south (left)		
pant of San Joaquin River, in group of 4-foot oak trees at upper end of long reach, about 350 feet south of mouth of slough		
which bears, northeasterly; iron post set in concrete (U. S. C.		
Which bears, northeasterly; from post set in concrete (c. s. c.	27. 17	
San Joaquin City, 1.3 miles northeast of, at Durham Ferry Bridge,	. 21. 11	
miles west and 4 miles south of Ripon, southeast corner of		
steel bridge over Red Bridge Slough, in concrete abutment;		
O. S. G. S. aluminum tablet, stamped "30 1912"	30. 861	
Red Bridge Slough, 2,800 feet west of outlet of, at right angle	00,002	
pend in San Joaquin City-Ripon road, 2 miles west and 6 miles		
south of Ripon, south side of road, 25 feet east of fence inter-		
section, on levee, 8 feet from 8-foot oak tree; iron post set in		
2 concrete (U.S. C. E. b. m. 439)	26. 54	
Kasson Farms Canal Inlet, at sharp bend 1.5 miles above, at lower		
end and on center line produced of long reach running north and		
south, about 25 feet south of south (left) bank of river; iron post	•	
set in concrete (U. S. C. E. b. m. 440)	24. 95	
Kasson Farms lower pump, on north levee at upper end of canal		
to first pumping lift, 1,100 feet south of south (left) river		
pank, 130 feet north of pump; iron post set in concrete (U. S. C. E.		
b. m. 441)	34. 02	
Paradise Dam, 1.4 miles south of, 600 feet northwest of river,		
at lower end of Carson Long Reach, at north corner of corral		
on M. C. Wright place; iron post set in concrete (U. S. C. E. b. m.		
442)	21.35	
Lathrop, at mile 78.1 of Southern Pacific R. R., at west end of		
vinduct leading to west end of bridge over San Joaquin River, on		
ton surface of hearing stone on northwest pier, about 3.9 feet		
Repelow top of rail; red metal disk 3 inches in diameter, lettered		
1378 M. S. U. & U. S. D. M	27, 215	
Parantt bridge, at south end abutment of: U. S. G. S. aluminum		,
tablet stamped "21 1010 80" (U. S. G. S. b. m.)	21, 039	V

DEGREE QUADRANGLE 37°-38°, 121°-122°	571
Garwood bridge, 60 feet east of, north side of road at fence line;	Feet
iron post stamped "7 1910" (U. S. G. S. b. m.)Stockton Canal, on landward slope of northerly levee of San Joaquin River, about 600 feet downstream from mouth of Stockton	7. 556
Canal; iron post set in concrete (U. S. C. E. b. m. 201) Stockton, west door of north entrance of San Joaquin County courthouse, in angle of wall; U. S. G. S. b. m. bronze tablet	<b>13.</b> 060
stamped "18-B"	18. 353
Primary leveling by S. E. Blout in 1903 and by H. C. Semper in 1905 From Lathron southwesterly along Southern Pacific R. R. to Midway	
Lathrop, 3.5 miles southwest of, 30 feet southwest of milepost 79,	
south side of track; iron post stamped "17.638 B"Milepost 75, 10 feet north of, south side of track; iron post stamped	17. 976
"22.181 B"	22. 477
Banta station, in front of freight house; top of rail	27. 2
Ellis, 1 mile west of, 4 feet north of milepost 69; iron post stamped "102.656 B" (Recovered by U. S. C. & G. S. in 1919)	102, 962
From Ellis south to Day's farm	202,002
Ellis, 4.8 miles south of, 1, 500 feet west of, at northwest angle of road to Ellis; iron post stamped "265 B"	204. 068
TESLA QUADRANGLE	
[Latitude 37° 30'-37° 45'; longitude 121° 30'-121° 45']	
ALAMEDA AND SAN JOAQUIN COUNTIES	
Primary leveling by S. E. Blout in 1903 and by C. H. Semper in 1905	
From Midway westerly along Southern Pacific R. R. to Livermore	Front
Midway station, 5 feet east of milepost 64; iron post stamped "351.341 B"	Feet 351. 459
Milepost 60, 300 feet west of, south side of track, at road crossing;	
iron post stamped "539.602 B"Altamont, 5 feet west of milepost 56; iron post stamped "739.899 B"	539. 640 739. 871
Milepost 52, 5 feet north of; iron post stamped "575.749 B"	575. 687
From Livermore easterly along Southern Paoisic R. R. to point 5 miles east of Carnegie, thence along highways to Day's farm	
T. 3 S., R. 2 E., northwest corner of sec. 23, at junction of Tesla	001 017
and Mocho roads, east angle; iron post stamped "601 B" T. 3 S., R. 2 H., north side of sec. 24, south of road, nearly opposite large farm gate; iron post stamped "688 B"	601. 317 688. 246
T. 3 S., R. 3 E., near center of sec. 20, 6.5 miles west of Tesla; 0.25 mile west of Al Allen's house, south of road, near fence; iron	000. 230
post stamped "B 882"	831, 965
T. 3 S., R. 3 E., sec. 27, 3.5 miles west of Tesla, halfway between old Richards mine and house, north of road; iron post stamped	
"B 1819"1 Tesla, 25 feet east of entrance to Tesla Hotel; iron post stamped	, 819. 600
"No. 11,886 B"Tesla, in brick steps of Tesla Hotel; aluminum tablet stamped	885. 253
"882 B"	881. 442
T. 3 S., R. 4 E., south side of sec. 29, 2.9 miles east of Tesla, near San Jonquin and Alameda County line, 20 feet south of track, 200	
feet east of railroad culvert; iron post stamped "700 B"	699. 436

	Feet
Collinsville, 12-foot mark, United States water gage	
Collinsville, 10-foot mark, California water gage	
Collinsville, 0.5 mile north of, at crossroads, southwe	
schoolhouse; iron post stamped "5 B." (Elevation by	
and Geodetic Survey 5.01 feet above mean tide level	
Birds Landing, southeast corner of yard of Willow Sp	
west side of road; iron post stamped "58 B"	
Montezuma, southeast corner of yard of school; iron p	
"41 B"	
Denverton, 5 feet west of northeast corner of blacksn	
front of schoolhouse; iron post stamped "7 B"	
on east side of road to north; iron post stamped "15 B	
Fairfield courthouse, 2.7 miles east of, 100 feet east of	
on south side of road; iron post stamped "15 B"	
	10, 100
Primary leveling by R. A. Farmer in 1905	
From Denverton east to sec. 36, T. 5 N., R. 1 E.	
T. 5 N., R. 1 E., northeast corner of sec. 36, east side o	f rond: iron
post stamped "17 B"	
Primary leveling by J. A. Vogelson in 1896	•
From sec. 29, T. 5 N., R. 1 W., south to Potrero Hil	ls
Potrero Hills, on line between secs. 3 and 4, 0.5 mile so	ith of north
line of sections, opposite gate to Sylvester Pimental'	
miles east to Sulsum; iron post stamped "49"	49, 529
From Birds Landing eastward, via Peter Anderson's place to poin Landing	
Birds Landing, 5 miles southeast of, at Peter Anderson	de place 10
feet west of gate to barn, on south side of road; iron p	ost stamped
"110 B"	
E LU D MANAGEMENT DE LA CONTRACTION DEL CONTRACTION DE LA CONTRACT	3,10, 1,0
Primary leveling by R. A. Farmer in 1905	
From sec. 35, T. 5 N., R. 1 E., southeast to Rio Vists	•
T. 4 N., R. 2 E., corner of secs. 3, 4, 9, and 10, 300 feet s	outhwest of
M. Egbert's white house; west side of road; iron po	
"82 B"	32. 327
T. 4 N., R. 2 E., corner of secs. 11, 12, 13, and 14, east si	de of road;
iron post stamped "19 B"	19. 360 J
From Concord north along road to Bay Point, thence east along cific R. R. to Black Diamond	Southern Pa-
McAvoys siding, in corner of fence southwest from south	west corner
of warehouse; Iron post stamped "22"	23, 308
Pittsburg, Black Diamond, in primary school yard, n	
Costa Bank; iron post stamped "21"	20. 736
Pittsburg, Black Diamond Hotel, tack on porch of, midw	ny between
two doors, 4 inches from side of house	7. 786
The above bench mark is, as nearly as could be determined	the dainm of the lovel
Marketem of the State engineering department, the elevation of	which above the mean
lowest low tide," as resulting from tidal observations made at	New York Landing dur-
ing the months of October, November, and December, 1878, is 11	.22 feet.

	From Cornwall east along Southern Pacche R. R. to Antioch
	antioch School, in rear wall of foundation; bronze tablet stamped
A	antioch, in front of station; top of rail
	BOULDIN, ISLETON, JERSEY, AND RIO VISTA QUADRANGLE
	[Latitude 38°-38° 15"; longitude 121° 30'-121° 45']
	CONTRA COSTA, SACRAMENTO, SAN JOAQUIN, AND SOLANO COUN Precise leveling by L. F. Biggs in 1907
	From point near Ryde southwest along northwest side of Sacramento River
I	Pier No. 10, Sacramento County, in town of Ryde, on property of W. A. Kesner, 250 feet west of levee, in northwest corner of alfalfa patch adjoining levee, 375 feet northwest of W. A. Kesner's house, 750 feet north of pumping station on south side of road near junction with levee; aluminum tablet in top of pier
1	tyde; gage zero (below sea level)——————————————————————————————————
]	Pier No. 11; copper bolt in base
]	Rio Vista, 1.9 miles north of, 100 feet east of saloon, near ferry landing, 60 feet west of river, east side of road, in top of 6 by 6 inch timber: nail
7	Rio Vista ferry; gage zero (below sea level) Rio Vista, water gage; spike in 16.4 foot mark Rio Vista; gage zero (below sea level)
	Rio Vista, southeast corner of bank building, 2 feet above sidewalk; aluminum tablet stamped "23 B 1905 F 17"
	Rio Vista, 3.5 miles southwest of, 100 feet from southwest corner of Madison's blacksmith shop, north corner of field, east side of road; iron post stamped "B 54 1907 F 20"

Feet

35.745 43.9

Feet

ANO COUNTIES

er No. 10, Sacramento County, in town of Ryde, on property of W.	
A. Kesner, 250 feet west of levee, in northwest corner of alfalfa	
patch adjoining levec, 375 feet northwest of W. A. Kesner's house,	
750 feet north of pumping station on south side of road near junc-	
tion with levee; aluminum tablet in top of pier	7. 916
er No. 10; copper bolt in base	4, 321
yde; gage zero (below sea level)	-4.066 '
yde, water gage, west end of pier; 15-foot mark	10. 934
er No. 9, Sacramento County, Andrus Island, on property of Jane	
Smith, 4 miles north of Isleton, at edge of open space in orchard,	
on line of wire fence which marks boundary between property of	
Jane Smith and George Nelson, 150 feet east of intersection of	
levee with said wire fence, 1,000 feet southeast of house of Jane	
Smith, 0.5 mile west of pumping station on Georgiana Slough;	
aluminum tablet in top of pier	9, 525
er No. 11; copper bolt in base	5, 806
der No. 8, Sacramento County, on Grand Island, on property of	
Stern & Co., 0.5 mile northeast of Isleton, near end of row of pop-	
lar trees running north from levee, 280 feet from junction of said	
row and levee, 1,000 feet northwest of house, near dividing line be-	
tween property of Mrs. Buckley and that of Stern & Co.; aluminum	
tablet in top of pier	6.407
der No. 8; copper bolt in base	2.813
io Vista, 1.9 miles north of, 100 feet east of saloon, near ferry land-	
ing, 60 feet west of river, east side of road, in top of 6 by 6 inch	
timber; nail	9, 829
io Vista ferry; gage zero (below sea level)	-3.843
io Vista, water gage; spike in 16.4 foot mark	12, 921
io Vista; gage zero (below sea level)	3. 479
io Vista, southeast corner of bank building, 2 feet above sidewalk;	<b>3.</b> 1. 5
aluminum tablet stamped "23 B 1905 F. 17"	22, 985
ier No. 6, Solano County, 0.3 mile south of Rio Vista, 0.3 mile west	
ier No. 6, Solano County, the fine solution and vista, the fine west	<u> </u>
of southern end of Wood Island, just above edge of swamp in	29.409
river bottom; tablet in top of pier	25. 718
der No. 6; copper bolt in base	, , , , ,
lo Vista, 3.5 miles southwest of, 100 feet from southwest corner of	ام
Madison's blacksmith shop, north corner of field, east side of road;	54, 382
iron post stamped "B 54 1907 F 20"	U3. UU4 U

	I <sup>r</sup> cet
Pler No. 14, Yolo County, 1 mile north of Courtland, on property	
owned by J. L. McFadden, in southwest corner of pasture inclosed	
by wire fence, 750 feet west of J. L. McFadden's house, 400 feet	
west of barn, which is 480 feet southwest of house (both buildings	
adjoin levee); aluminum tablet in top of pier	11. 588
Pier No. 14; copper bolt in base	7. 914
Grand Island, north corner of bridge abutment; aluminum tablet	
stamped "B 20 1006 N"	20.256
Rier No. 12, Sacramento County, Grand Island, on property of Isaac	
G. Hall, 0.5 mile south of Vorden, on fence line on south edge of	
orchard, 10 feet north of road running west from levee, 160 feet	
west of large frame house owned by California Transportation Co.,	
in southeast corner of orchard at junction of road and levee, 0.25	
mile south of pumping station on west bank of river; aluminum	/
tablet in top of pier	10. 897
Pier No. 12; copper bolt in base	7. 283
142 183 184 18	1. 200
From point near Lisbon School south along east bank of Sacramento River	
Freeport ferry, in front of ferryman's house, north side of road, in	
top of hitching post; nail	28. 392
Pler No. 17, Sacramento County, 1.5 miles south of Freeport, on prop-	
erty of J. H. Beach, at southeast corner of storehouse, 450 feet	
south of vertex of angle formed by junction of railroad grade with	
levee, 75 feet north of house and 200 feet west of barn of J. H.	
Beach, 35 feet north of private road from levee through property	
of J. H. Beach, 125 feet northeast of junction of private road with	
levce; aluminum tablet in top of pler	16. 861
Pier No. 17; copper bolt in base	12. 143
Pier No. 15, Sacramento County, 4 miles northeast of Courtland, on	
property of the William Johnston estate, in south corner of inclo-	
sure south of and adjoining house, 200 feet south of house, 100	
feet southwest of windmill, 240 feet northwest of creamery, 185	
feet from intersection of fence with levee; aluminum tablet in top	
of pier	13. 353
Pier No. 15; copper bolt in base	9, 638
Courtland; gage zero (below sea level)	-3.941
Courtland, south wall of Bauer, Miller & Newbert's store; alumi-	
num tablet stamped "14 B 1906 N"	14. 315
Pler No. 18, Sacramento County, in town of Paintersville, on property	
owned by Maggie V. Painter, 2 miles south of Courtland, 3 feet	
from south side of high board fence of corral, 30 feet east of two	
large oak trees standing 20 feet apart, 300 feet southeast of house	
of Maggle V. Painter, 140 feet east of barn on east side of levee be-	
low house, 200 feet from levee; aluminum tablet in top of pier	10.661 (/
Pier No. 18; copper bolt in base	6. 962
Vorden; gage zero (below sea level)	-4.692
Grand Island, 4 miles south of bridge, 250 feet southeast of E. B.	
King's house, 150 feet northeast of Sacramento River levee, 100	•
feet northeast of cross levee; iron post stamped "8 B 1906 N"	8. 411
Grand Island bridge, about 4.1 miles southeast of, 0.9 mile east of	
E.B. King's house, in base of tree; spike (Sacramento Southern	
R. R. bench mark)	13, 018
A STATE OF THE STA	

DEGREE QUADRANGLE 38°-39°, 121°-122°	597
Primary leveling by R. A. Farmer in 1905, by C. L. Nelson in 1906, and by B. A. Jenkins in 1908	
From Tremont east 4 miles, thence south 6.5 miles, east 2 miles, south 3 miles, and west to Binghamton	Feet
Bulkey's ranch, southeast corner of yard, west side of road; iron post stamped "34 B"	84. 673
Hance Timm's house, 400 feet southeast of, west side of road; iron post stamped "81 B"	81, 884
sec. 36, T. 7 N., R. 2 E., southeast corner of field; iron post	21. 258
T. 6 N., R. 2 E., near northeast corner of sec. 24, southeast corner of pasture fence; iron post stamped "8 B"	7. 959
T. 6 N., R. 2 E., 1 mile east by 0.25 mile north of Peter's house, southeast corner of field; iron post stamped "17 B"	17. 671
From Jud King's ranch house east 2 miles (double spur line)  Jud King's ranch house, 2 miles east of, on north and south fence line, 50 feet east of levee, 150 feet southeast of dead tree on levee; iron post stamped "9 B"	9. 327
Bench mark at forks of Sutter and Steamboat sloughs	
Forks of Sutter and Steamboat sloughs, 0.7 mile north of, 0.25 mile northwest of H. M. Donaldson's ranch house, 300 feet west of Sutter Slough, in northwest corner of orchard lot; iron post stamped "6 1906 B. N."	<b>6. 47</b> 8
From Courtland southeast to Walnut Grove	•
Grand Island, at head of Steamboat Slough, 0.5 mile north of bridge, at Kercheval House; zero of gage (below sea level)Grand Island bridge, 3 miles east of, 100 feet southeast of school-house, 0.25 mile northwest of pump house, at southeast corner of	-3, 838
yard, west side of road; iron post stamped "—2 B. N. 1906" (below sea level)	-1.988
From Courtland north, east, and southeast to Pierson District creamery, thence east to Franklin road	
Courtland, 1.2 miles north of, at east edge of levee, 15 feet south of school, in 24-inch oak tree; nail with aluminum tag stamped "17 41"	16. 834
Franklin, 4.3 miles southwest by 5 miles west of, on south edge of second-class road, 600 feet southeast of creamery, in pyramid on root of 30-inch oak tree; nail with aluminum tag stamped	
"6 80"	6. 10
DAVISVIILE QUADRANGLE	
[Latitude 38° 30'-38°45'; longitude 121° 30'-121° 45']	•
SACRAMENTO AND YOLO COUNTIES	
Precise leveling by C. H. Semper in 1901-2	
From Davisville east along Southern Pacific R. R. to Broderick	Feet
Davisville, in front of Davis station; top of rail————————————————————————————————————	48. 0 42. 660
post 77; iron post stamped "42 B"	

	612 SPIRIT LEVELING IN CALIFORNIA, 1896-1923	
	From Lodi east along wagon road to Lockeford, thence north to Dry Creek	Feet
/	Lodi, 1.2 miles south of, east of railroad at crossing, north of road, at angle of fence; iron post stumped "45"Lodi, 3.6 miles east of, where road from south joins Lodi-Lockeford road, angle of fence; iron post stamped "B 1907 72"	45. 840 1 72. 083
	Lockeford, at northwest corner of school grounds; Iron post stamped "B 1907 101 8"  Lockeford, 5.8 miles north of, southwest corner of Elliott School grounds; iron post stamped "B 1907 105 15"	101, 311 105, 649
	From Elliott west along road to cemetery entrance	
	Galt, 4.6 miles east of, at intersection of roads; iron post stamped "B 1907 64 16"	64. 179
	From Lockeford east along wagon road to Clements, thence north to point 1.7 miles south of Dry Creek School	,
	Clements, in front of Leo Friedberger's store; tablet stamped "B 1907 181 11"	131, 236
	Clements, 4.4 miles north of, 20 feet west of road, in front of deserted house; iron post stamped "B 1907 214 26"	214, 312
	From Lockeford south along wagon road to Farmington road	
	Lockeford, 4 miles south of, 40 feet southeast of where Lodi-San Andreas road crosses Lockeford-Stockton road, at fence corner; iron post stamped "B 1907 80 9"	80. 019 72. 143 67. 051
		• • • • • • • • • • • • • • • • • • • •
	From Clements south along wagon road to point near Peters  Clements, 3.0 miles east of, at intersection of roads; iron post stamped "B 1907 192 12"	192, 308
	Clements, 8 miles southeast of, at section corner, on north side of road; iron post stamped "B 1907 194 18"Bellota, northeast corner of post office; iron post stamped "B	194. 362
	1907 180 14"	130. 792
	Peters, near southeast corner of junction of Peters-Linden road; iron post stamped "102"	102. 325
	From Galt west along road via New Hope to Walnut Grove	•
	Galt, 3.5 miles west of, north side of road, 200 feet east of intersection of fence from north; iron post stamped "B 1907 29 17" New Hope, Don Ray & Co.'s store, southwest corner of cement porch;	29. 027
	aluminum tablet stamped "B 1907 13 18"	13. 514 13. 92
	From Lodi west along road via Woodbridge to Brack's Landing	
	Lodi, northwest corner of opera house; aluminum tablet stamped "B	<b>51.</b> 064
	Woodbridge, northwest corner of Masonic Hall; aluminum tablet stamped "B 1907 45 19"	46. 865
	Woodbridge, 8 miles west of, intersection of roads; iron post stamped "B 1907 29 20"	29, 609

manus commandis so -so, isi -122	010
Spur from Brack's Landing west 5 miles to point near pumping plant (stopped by overflow)	l Feet
Brack's Landing, southeast corner of warehouse; iron post stamped "B 1907 6 41"	
From Brack's Landing southeast to Kettleman's ranch, thence east to Southern Pacific R. R. milepost 99	ı
Brack's Landing, 4.7 miles south of, on Terminus road, 400 feet west of levee, north side of road; iron post stamped "B 1907 38" (erroneously stamped 4)	1, 563
В 9 39 "	9.882
From intersection of Eightmile House and Lower Sacramento roads south to Fivemile House, thence east to Southern Pacific R. R. and north along railroad to milepost 97	
Fivemile House, 1,000 feet north of, west edge of Lower Sacramento road where lane from west intersects; iron post stamped "B'1907 13 40"	
Lodi, 7.2 miles south of, 15 feet north of milepost 97; iron post stamped "B 1907 28"	(2)
SACRAMENTO QUADRANGLE	
[Latitude 38° 30'-39°; longitude 121°-121° 30']	
ELDORADO, PLAGER, SAGRAMENTO, AND SUTTER COUNTIES	
Precise leveling by the U. S. Coast and Geodetic Survey	
From Clippergap southwest along Southern Pacific R. R. to Brighton	
Clippergap, 1 mile northeast of, about 1.2 meters from east end of tunnel O of the westbound line of the Southern Pacific R. R., on south stone wall, 0.6 meter above top of rail; red metal disk	Feet
(U. S. C. & G. S. b. m. G-10)Clippergap, 0.2 mile east of Southern Pacific R. R. station, on top of	1, 867. 516
old foundation of water tank (now removed), about 0.5 meter below top of rail; red metal disk (U. S. C. & G. S. b. m. F-10)  East Auburn, opposite Southern Pacific R. R. passenger and freight station, on old line (now the westbound line) of Southern Pacific R. R., on eastern one of two northwestern concrete pillars under water tank, about 1 meter above top of rail; red metal disk (U. S.	1, 755. 751
C. & G. S. b. m. E-10)	1, 359. 02ե
**R. tunnel, north of truck, on top surface of bottom stone of truncel lining, 0.3 meter above truck; red metal disk (U. S. C. & C. S. b. m. D-10)	975, 825
Bocklin, about 0.5 mile east of, on west side of concrete bridge of Bouthern Pacific R. R., which carries the eastbound track over the testbound track; north of westbound track and about 1 meter above it, about 0.46 meter from north edge of pier, 1.5 meters	O.C. Char
above ground; red metal disk (U. S. C. & G. S. b. m. C-10)  Restrille, about 0.8 mile east of Southern Pacific R. R. station, on the surface of granite abutment at east end of railroad bridge  with an south side of track and about 0.5 meter below it: red	251. 824
metal disk (U. S. C. & G. S. b. m. B-10)	172. 742